AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A data bus configuration, comprising:

a ~~at least one~~ control station;

at least one reception station;

a data bus configured to operate ~~operated~~ in a multiplex mode and coupled ~~connected~~ to said control
    station and to said reception station; and

a control bus coupled ~~connected~~ to said control station and to said reception station, wherein said
    control station is configured to allocate a logical channel, via said control bus, ~~and through
    said control bus~~ between said control station and ~~allocating a logical channel to~~ said
    reception station.

2. (Currently Amended) A method for operating a data bus configuration having a ~~at least one~~
control station, at least one reception station, a data bus configured to operate ~~operated~~ in a
multiplex mode and coupled ~~connected~~ to said ~~the~~ control station and to said ~~the~~ reception station,
and a control bus coupled ~~connected~~ to said ~~the~~ control station and to said ~~the~~ reception station,
~~which comprises the steps of~~ said method comprising:

transmitting an address by said ~~using the~~ control station ~~to transfer an address onto~~ via the data bus ;

continuously monitoring the data bus by said reception station;

~~for~~ soliciting said ~~the~~ reception station when said address transmitted by said control station
    matches an address designated for said reception station;

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allocating a logical channel between said ~~to the~~ solicited reception station and said control station,

via ~~through~~ the control bus; and

interchanging data between said ~~the~~ control station and said ~~the~~ reception station for a time period

that ~~as long as~~ the logical channel remains allocated to said ~~the~~ reception station ~~and is~~

~~called~~.

3. (Currently Amended) The method according to claim 2, wherein said soliciting step ~~which~~

further comprises soliciting said ~~the~~ reception station through the control bus by calling the

allocated logical channel at a same time as a transfer of the data.

4. (Currently Amended) The method according to claim 2, wherein said soliciting step ~~which~~

further comprises soliciting said ~~the~~ reception station through the control bus by calling the

allocated logical channel before a transfer of the data.

5. (Currently Amended) A data bus configuration, comprising:

a ~~at least one~~ control station;

at least one reception station;

a data bus configured to operate ~~operated~~ in a multiplex mode and coupled ~~connected~~ to said control

station and to said reception station; and

a control bus coupled ~~connected~~ to said control station and to said reception station, wherein said

control station is configured to allocate a logical channel, via said control bus, between said control

station and said reception station,[[;]]

~~said control station allocating a logical channel to said reception station through said control~~

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bus;wherein ~~and~~ said control station and said reception station interchange ~~interchanging~~ data for a time period while ~~for as long as~~ said logical channel remains allocated to said reception station ~~and is called~~.

6. (New) The data bus configuration according to claim 1, wherein said control station is configured to transmit an address of a reception unit on said data bus before data is to be interchanged between said control station and said reception unit.

7. (New) The data bus configuration according to claim 6, wherein said reception station is configured to continuously monitor said data bus and determine when said address transmitted by said control station matches an address designated for said reception station.

8. (New) The data bus configuration according to claim 7, wherein said control station allocates a logical channel between said control station and said reception station, such that data can be interchanged between said respective stations.

9. (New) The data bus configuration according to claim 8, wherein data is interchanged between said control station and said reception station for a time period that the logical channel remains allocated on said control bus.

10. (New) The data bus configuration according to claim 8, wherein said reception station is configured to continuously monitor said control bus and determine when a logical channel transmitted by said control bus matches the allocated logical channel designated for said reception station.

11. (New) The data bus configuration according to claim 9, wherein data is interchanged between said control station and said reception station until the control station allocates the logical channel to another reception station.

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12. (New) The data bus configuration according to claim 3, wherein data is interchanged between said control station and said reception station until the control station allocates the logical channel to another reception station.

13. (New) The data bus configuration according to claim 4, wherein data is interchanged between said control station and said reception station until the control station allocates the logical channel to another reception station.